

1 **HYPERBARIC OXYGEN ORGAN PRESERVATION SYSTEM (HOOPS)**

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3 **Abstract:** A method of delivering oxygen to a biological entity comprising of
4 dissolving oxygen into a perfusate and forcing the perfusate through the biological entity
5 whereby substantially high levels of oxygen are available to satisfy the biological demand
6 of the biological entity. An apparatus for supplying oxygen to a biological entity
7 whereby substantially high levels of oxygen are available to satisfy the metabolic demand
8 of said biological entity. An apparatus for supplying metabolic supplements to a
9 biological entity whereby the effect of said metabolic supplement on said biological
10 entity can be monitored. The method and apparatus keeps a biological entity such as an
11 organ viable at a range of temperatures while in an aerobic state. This allows the study of
12 said organ from a physiological or experimental standpoint. It allows said organ to be
13 transplanted with little or no reperfusion injury, thus increased survivability over the
14 prior art.

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